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Edizione	[1st edition]
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Altri autori (Persone)	LucidarmeThierry
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Soggetti	Universal Mobile Telecommunications System Wireless communication systems
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Note generali	Includes index.
Nota di contenuto	Preface. -- 1. Introduction. -- 1.1 Wireless World Picture. -- 1.2 About Technologies. -- 1.3 Standards and Organizations. / / 1.4 Spectrum. / / 1.5 The Evolution of UMTS. -- 1.6 Links and Documents. / / 2. Evolved UMTS Overview. / / 2.1 The Access Network Requirements. -- 2.2 Evolved UMTS Concepts. -- 2.3 Overall Evolved UMTS Architecture. / / 2.4 The IMS Subsystem. / / 2.5 Policy Control and Charging. / / 2.6 The Terminal. / / 2.7 The Evolved UMTS Interfaces. / / 2.8 Major Disruptions with 3G UTRAN-FDD Networks . -- 3. Physical Layer of E-UTRAN. / / 3.1 Basic Concepts of Evolved 3G Radio Interface. -- 3.2 OFDM (Orthogonal Frequency Division Multiplex). -- 3.3 MIMO (Multiple Input Multiple Output). / / 3.4 Architecture of the Base Station. / / 3.5 The E-UTRAN Physical Layer Standard. / / 3.6 FDD and TDD Arrangement for E-UTRAN. -- 3.7 Downlink Scheme: OFDMA (FDD/TDD). / / 3.8 Uplink Scheme: SC-FDMA (FDD/TDD). -- 3.8 Uplink Scheme: SC-FDMA (FDD/TDD). -- 4. Evolved UMTS Architecture. / / 4.1 Overall Architecture. -- 4.2 User and Control Planes. / / 4.3 Radio Interface Protocols. / / 4.4 IMS Protocols. -- 5. Life in EPS Networks. -- 5.1 Network Attachment. -- 5.2 Communication Sessions. -- 5.3

Mobility in IDLE Mode. -- 5.4 Mobility in ACTIVE Mode. / / 6. The Services. -- 6.1 The Role of OMA. -- 6.2 Push-to-talk Over Cellular. -- 6.3 Presence. -- 6.4 Broadcast and Multicast. -- 6.5 Voice and Multimedia Telephony. -- Glossary. -- Index.

Sommario/riassunto

2G/GSM and 3G/UMTS are key mobile communication technologies, chosen by more than 2 billion people around the world. In order to adapt to new services, increasing demand for user bandwidth, quality of service and requirements for network convergence, major evolutions are introduced in 3G network standard. Evolved Packet System (EPS) presents the EPS evolution of the 3G/UMTS standard introduced by the 3rd Generation Partnership Project (3GPP) standard committee. This new topic is looked at from a system perspective, from the radio interface to network and service architecture. Hundreds of documents being issued by Standard organisations are summarised in one book to allow the reader to get an accessible comprehensive view of EPS evolution. . Proposes a system view of Evolved UMTS, from the radio to Core and service architecture . Gives a comprehensive and global view of the system that technical specifications do not provide . Describes the new system as well as the inheritance and migration from 2G/GSM and 3G/UMTS . Written by experts in the field who specialise in two complementary but very different technical domains (i.e. "radio interface" and "network architecture") . Contains many figures and examples for better understanding. This book is essential for industry professionals in the telecommunication business, telecommunication system architects and designers, product manufacturers and operators and postgraduate students.

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Autore	Robinson Neil <1964->
Titolo	The Cloud : understanding the security, privacy and trust challenges / / Neil Robinson, ... [et al.]
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Edizione	[1st ed.]
Descrizione fisica	1 online resource (135 p.)
Collana	Technical report ; ; [TR-933-EC]
Disciplina	342.40858
Soggetti	Cloud computing - Security measures Computer security Privacy, Right of Information policy - European Union countries
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Sponsored by the European Commission Directorate General Information Society and Media".
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Cover; Title Page; Copyright; Preface; Acknowledgements; Contents; Glossary; Executive Summary; Synthesis; Defining cloud computing; Defining security, privacy and trust; Issues arising from the reviewed literature; Risk control frameworks; Operational challenges; Implications from case studies; Gap analysis; Solving the challenges: observations and recommendations; Conclusions; Methodology; Structure of the report; Chapter 1:Introduction; Chapter 2: Definitions and drivers; 2.1 Definitions of cloud computing; 2.2 What's pushing cloud take-up? 2.3 The economics of cloud computing: implications for security; 2.4 Concluding remarks; Chapter 3: Understanding the implications for security, privacy and trust; 3.1 Defining security, privacy and trust; 3.2 Growing focus on security, privacy and trust concerns; 3.3 Identifying key issues and possible enablers for security, trust and privacy in the cloud; Chapter 4: Security, privacy and trust challenges stemming from the technological underpinnings of cloud computing; 4.1 The linchpin of trust: the hypervisor

4.2 Can the distributed models of computation characteristic of grid technology adequately serve the availability and interoperability needs of cloud computing?; 4.3 Current state-of-the-art web services may not be sufficient to establish interoperability for identity management in the cloud; 4.4 Trustworthiness in service-orientated architectures (SOAs); 4.5 Will web application frameworks (APIs and SDKs) be credible in providing trust across distributed environments?; 4.6 The fragility of current encryption approaches in the cloud context; 4.7 Concluding remarks
Chapter 5: Security, privacy and trust challenges inherent to the legal and regulatory aspects of cloud computing; 5.1 Horizontal perspective: applicable law and jurisdiction; 5.2 Vertical issues: main applicable laws; 5.3 The will of the parties: contractual provisions; 5.4 Overcoming legal barriers: key tools; 5.5 Concluding remarks; Chapter 6: Putting it all together: key risks and operational challenges; 6.1 Summary of legal and technical issues; 6.2 Migrating to the cloud: the operational challenges; Chapter 7: Case studies; 7.1 Introduction; 7.2 Initial classification of case studies
7.3 Observations on case studies in practice; 7.4 Matrix of case study typology; 7.5 Case Study 1: the Danish National IT and Telecom Agency; 7.6 Case study 2: the City of Los Angeles; 7.7 Case study 3: EU eHealth provider; 7.8 Implications; Chapter 8: Gap analysis; Chapter 9: Solving the challenges: recommendations and actions; 9.1 Introduction; 9.2 Recommendations; 9.3 Specific actions; Chapter 10: Conclusions; References; Appendices

Sommario/riassunto

This report discusses how policy-makers might address the challenges and risks in respect of the security, privacy and trust aspects of cloud computing that could undermine the attainment of broader economic and societal objectives across Europe.